



**ECotality North America
EV Project
EV Charging Infrastructure
Deployment Guidelines
MAY 19, 2010**

History

- April 16, 2009

MAG, ECOtality and Nissan North America announced a zero emissions partnership that will help facilitate the introduction of electric vehicles (EVs) in the MAG region.

- May 20, 2009

MAG staff provided an update on the zero emission partnership initiative to the MAG Building Codes Committee.

History

- August 5, 2000

ECOtality North America (formerly eTec), a subsidiary of ECOtality, Inc., a leader in clean electric transportation and storage technologies, was selected by the U.S. Department of Energy for a grant of approximately \$99.8 million.

- Largest deployment of EVs and charging infrastructure to date
- Matched by application's project participants to provide a total of approximately \$200 million

Electric Vehicle Infrastructure Initiative

- The eTec initiative proposes to deploy charging infrastructure in major population areas that include Phoenix (AZ), Tucson (AZ), San Diego (CA), Portland (OR), Eugene (OR), Salem (OR), Corvallis (OR), Seattle (WA), Nashville (TN), Knoxville (TN), and Chattanooga (TN).

Arizona

- Phoenix (MAG region)
- Tucson (PAG region)
- I-10 Corridor
 - Strategic fast-charge stations along Interstate-10 to create the first true implementation of an EV Corridor in North America



EV Charging Infrastructure Deployment Guidelines

- Intended to create a common knowledge base of EV requirements for stakeholders involved in the implementation of EV charging infrastructure.
- Provides the necessary background information for understanding EV requirements and the related codes, laws and standards for this effort.
- Provides the foundation upon which the EV Micro-Climate© program is implemented to guide the installation of infrastructure to support and encourage the adoption of electric vehicles in the MAG region.

EV Charging Infrastructure Deployment Guidelines

CONTENTS

- 1. Electric Vehicle Technology**
- 2. Charging Requirements**
- 3. Charging Scenarios**
- 4. Additional Charging Considerations**
- 5. Codes and Standards**
- 6. Utility Integration**

NEXT STEPS

EV Micro-Climate Plan & Roadmap

July 2010

- **Develop EV Micro-Climates© Plan**
 - Project Boundaries
 - Incorporates Local Demographic and Transportation Studies
 - Survey of existing EVSE
 - 10-Year EV Infrastructure Feedback
 - Incorporates Stakeholder Feedback
- **Develop EV Micro-Climate© Roadmap (Locations)**
 - Publicly Available Charging Station Installation Detailed Plan
 - Commercial & Public
 - Fast Charger Installation Detailed Plan
 - Home Base Charging Station Installation Detailed Plan
 - Residential/Fleet

**THANK YOU MAG!!!
*AND BUILDING CODES
COMMITTEE!***